

SPECIFICATION CONTROL DRAWING

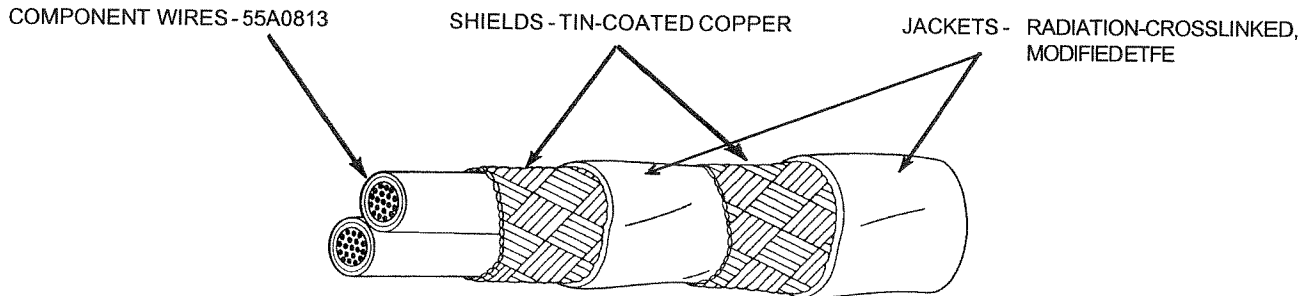
55A7463

TITLE TWO CONDUCTOR CABLE,
DOUBLE SHIELDED, DOUBLE JACKETED

Date 06-05-00

Revision

This specification sheet forms a part of the latest issue of Raychem Specification 55A and MIL-DTL-27500 as applicable.



CABLE CONSTRUCTION DETAILS

| PART NUMBER | CONDUCTOR SIZE (AWG) | INNER SHIELD SIZE (AWG) | INNER JACKET THICKNESS (inches) | | OUTER SHIELD SIZE (AWG) | OUTER JACKET THICKNESS (inches) | | OUTSIDE DIAMETER (inches) | | MAXIMUM WEIGHT (lb/1000 ft) |
|--------------|----------------------|-------------------------|---------------------------------|---------|-------------------------|---------------------------------|---------|---------------------------|---------|-----------------------------|
| | | | MINIMUM | MAXIMUM | | MINIMUM | MAXIMUM | NOMINAL | MAXIMUM | |
| 55A7463-26-* | 26 | 38 | .004 | .008 | 38 | .005 | .010 | .142 | .149 | 17.9 |
| 55A7463-24-* | 24 | 38 | .004 | .008 | 38 | .005 | .010 | .152 | .160 | 20.4 |
| 55A7463-22-* | 22 | 38 | .004 | .008 | 38 | .005 | .010 | .162 | .170 | 23.6 |
| 55A7463-20-* | 20 | 38 | .004 | .008 | 38 | .006 | .011 | .178 | .187 | 28.8 |
| 55A7463-18-* | 18 | 38 | .005 | .008 | 38 | .006 | .011 | .202 | .212 | 37.0 |
| 55A7463-16-* | 16 | 38 | .005 | .008 | 38 | .006 | .011 | .218 | .229 | 43.2 |
| 55A7463-14-* | 14 | 38 | .005 | .009 | 38 | .007 | .012 | .254 | .266 | 58.1 |
| 55A7463-12-* | 12 | 38 | .005 | .009 | 36 | .007 | .013 | .292 | .306 | 80.1 |

ADDITIONAL REQUIREMENTS

TEMPERATURE RATING: 150°C

Maximum continuous conductor temperature

VOLTAGE RATING: 600 volts (rms)

BLOCKING: 200 ± 3°C for 6 hours

CROSSLINKED VERIFICATION: 300 ± 5°C for 6 hours

DIELECTRIC WITHSTAND:

1500 volts (rms), 60 Hz conductor to conductor and shield,

500 volts (rms), 60 Hz shield to shield

FLAMMABILITY:

Procedure 1, 3 seconds (maximum); 3 in. (maximum);

no flaming of facial tissue

JACKET COLOR: White preferred

JACKET ELONGATION AND TENSILE STRENGTH:

Elongation, 50% (minimum) (each)

Tensile Strength, 5000 lbf/in² (minimum) (each)

JACKET FLAWS:

Spark Test, 1500 volts (rms), 100% test

Impulse Dielectric Test, 6.0 kV (peak), 100% test

LOW TEMPERATURE-COLD BEND: -55 ± 5°C for 4 hours

SHIELD COVERAGE: 85% (minimum) (each)

VOLTAGE WITHSTAND TEST (POST ENVIRONMENTAL):

1000 volts (rms), 60 Hz, 1 minute

PART NUMBER:

The "*" in the part numbers above shall be replaced by color code designators with a slash separating the component colors, a dash separating the component wire color from the inner jacket color and a dash separating the inner jacket color from the outer jacket color.

Example: AWG 22, white and white with blue stripe component wires; white inner jacket and white outer jacket: 55A7463-22-9/96-9-9

NOTE: Nominal values are for information only.
Nominal values are not requirements.

This construction meets all the requirements of M27500-AWGSM2V73, less identification.

COLORS AND COLOR CODE DESIGNATORS SHALL BE IN ACCORDANCE WITH MIL-STD-681.

DIMENSIONS ARE IN INCHES, AND UNLESS OTHERWISE DESIGNATED ARE NOMINAL.